# SBF-325 SERVICE NOTES

Delay time

FLANGER mode:

CHORUS mode:

• Frequency response (Delay line):

● Noise level: less than -70dBm

● Modulation speed: 0.2s~40s

0.5ms ~ 15ms

75 Hz ~ 14 kHz (±3dB)

[0dBm = 0.775V RMS]

5ms ~ 15ms

### • SPECIFICATIONS

• Input level

L: +4dBm (+20dBm max) H: -16dBm (0dBm max)

• Input impedance:

nce:  $(13k\Omega)$ over 100k ohms

Output level
H: +4dBm (+20dBm max

H: +4dBm (+20dBm max) L: -16dBm (0dBm max)

ullet Output impedance: less than  $2k\Omega$ 

# First Edition

Power consumption:

10W

• Dimensions:

482(W) × 92(H) × 247(D) mm 19" rack mount EIA-2U

Weight:

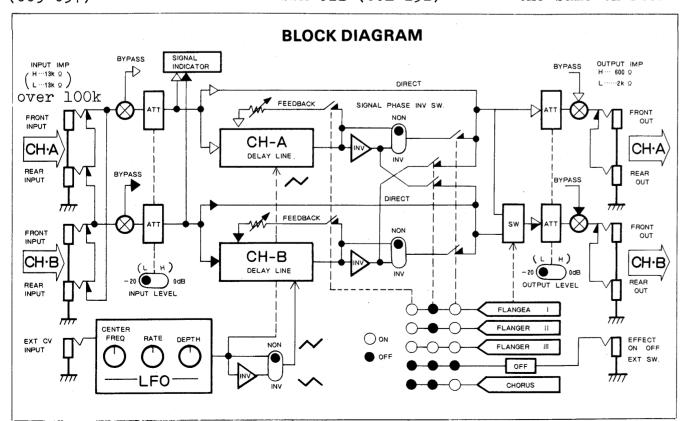
4.5kg

Jack
HLJ-0261-01-030
(009-037)

SSM-022 (001-232)

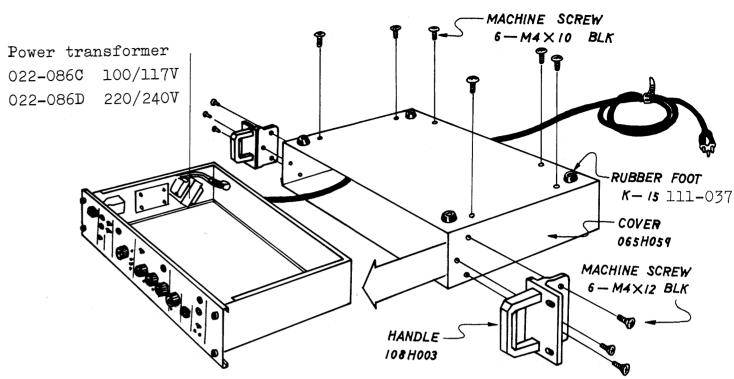
Tever switch
(009-030)

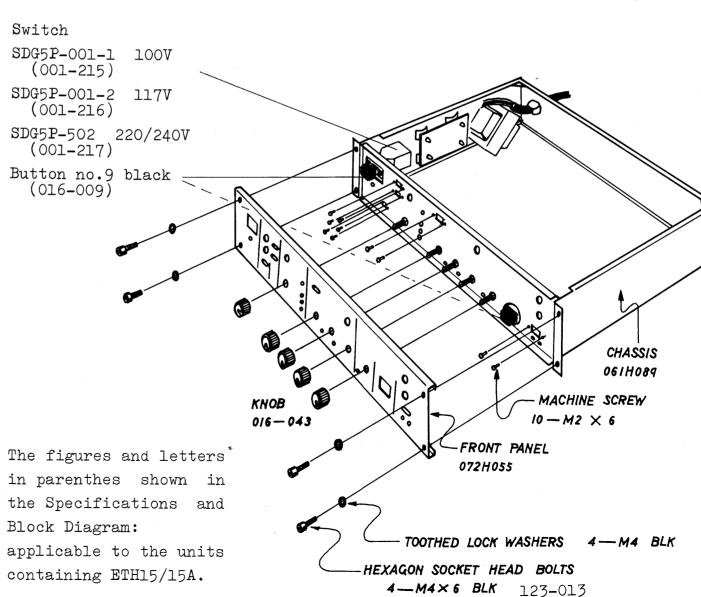
the same on rear

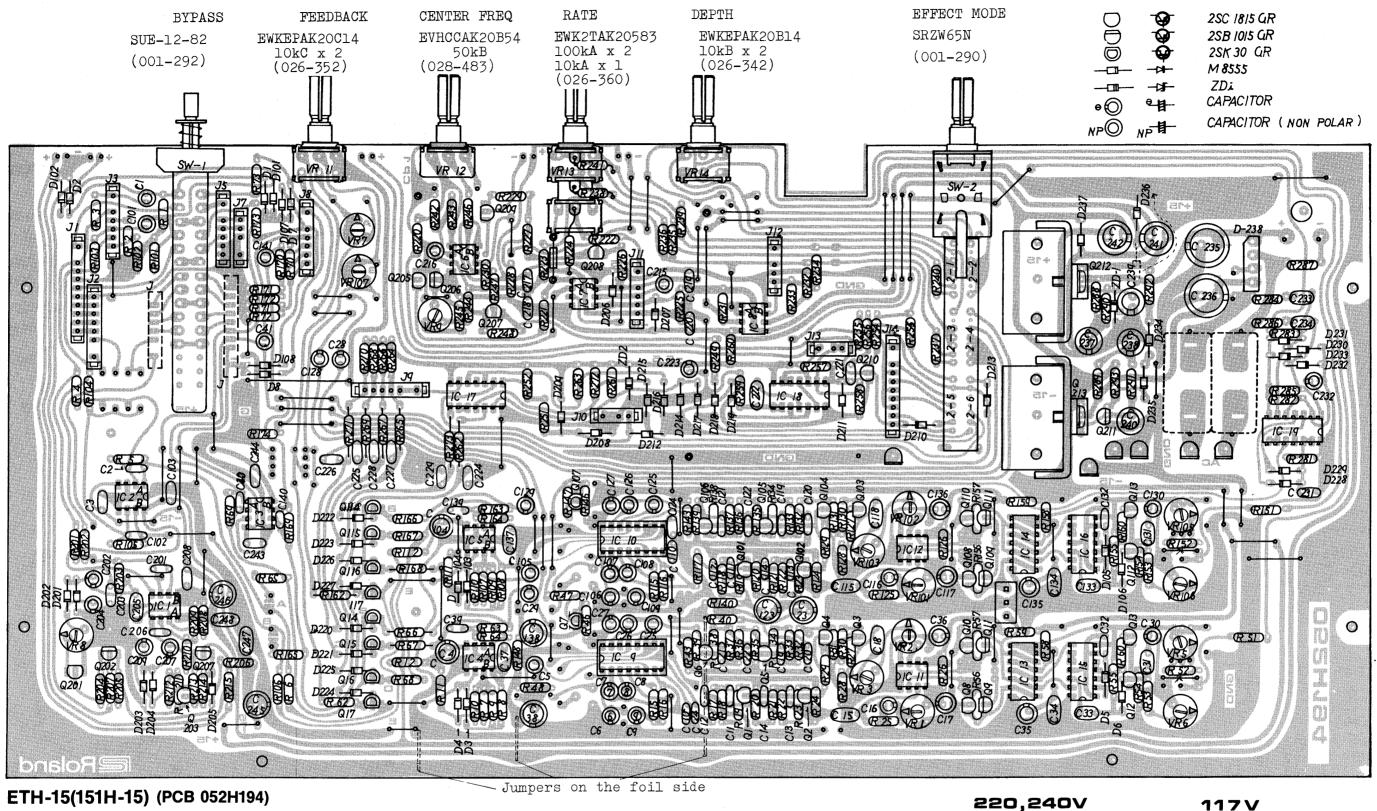


# Roland

SBF-325 DISASSEMBLY







## ETH-15(151H-15) (PCB 052H194)

For replacement, compatible ETH-15A is available. (ETH15A: ETH15 with roadmap)

Q1~6.8.10,13.201,203,205,208,209,210	
101~106,108,110,113	2SC-1815GR
Q9,11,12,109,111,112,202,204,206,211	2SC - 1015GR
Q7,-107, 14~17, 114~117,	2SK-30AGR
D:	M8555
D238	IB4B4I
ZDı	HZ 161L

Q 212 2SD · 526Y

2SB-596Y ZD2 HZ 6A3 µPC-4558 IC 9,10 NE-570 IC 11,12 MN-3007 1C 13,14 TC-40/3BP IC 15,17 TC-4069UBP IC 18,19 TC-4001BP LF353

022-086 D (BRN) AC 240V (220V) POWER SW. SDG-5P-502

T125mA 250 V

ECQ-E2A 473 MCS

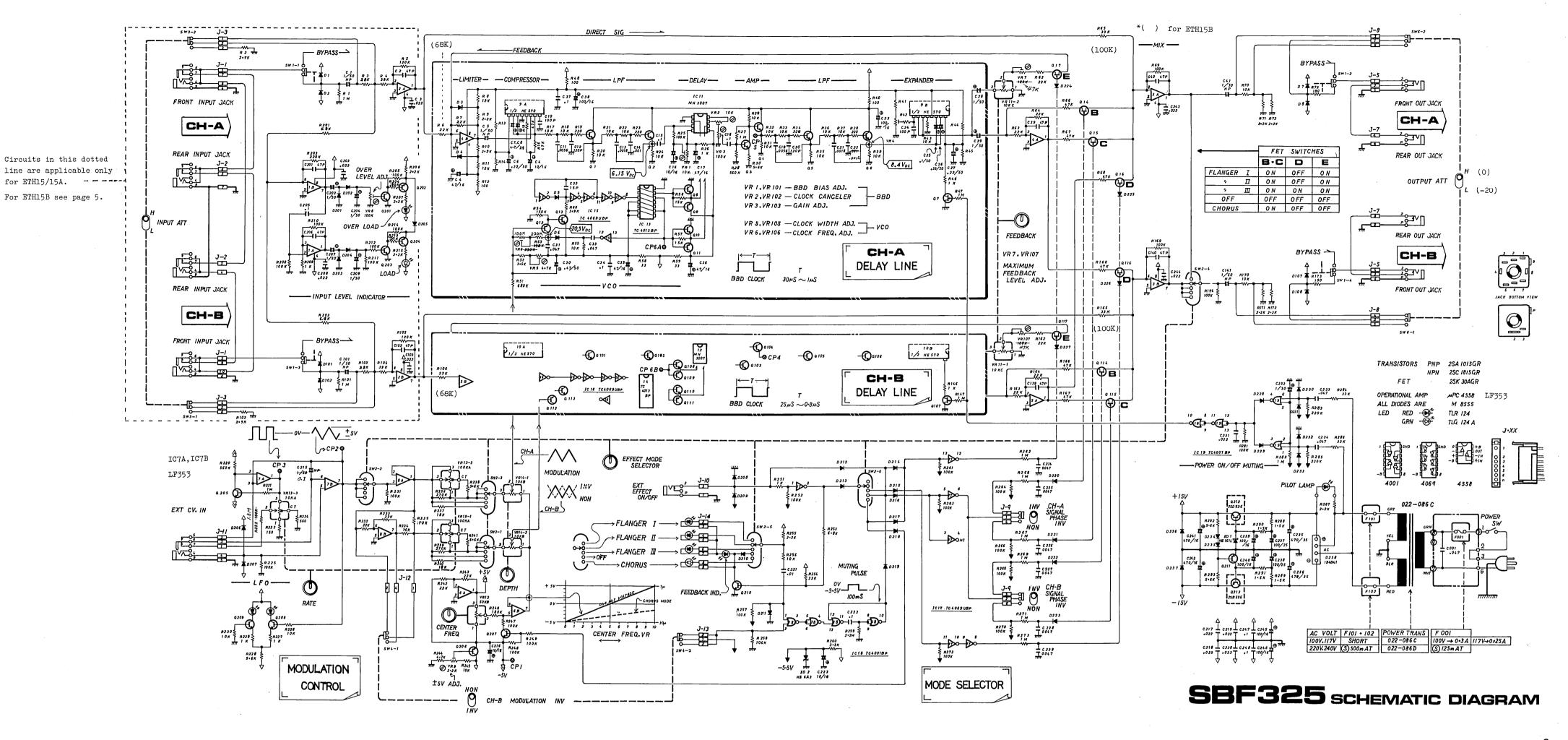
90 

MGP-0.25A CSA 0-25A 250V ECQ-UIA 473 MC

(see OVERALL DIAGRAM)

OPH 085 A

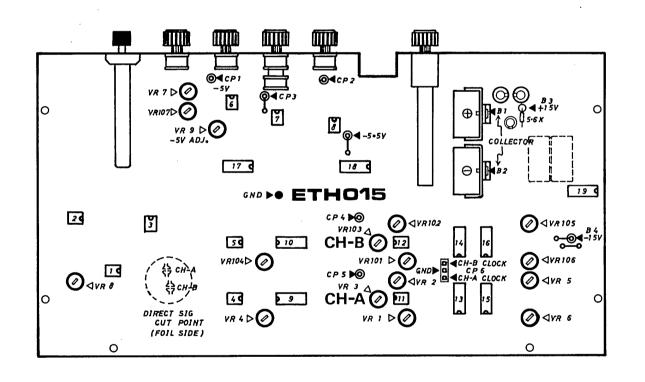
OPH 084 A

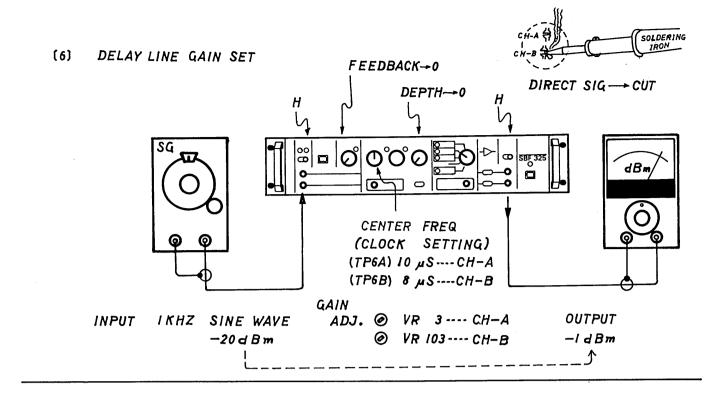


3

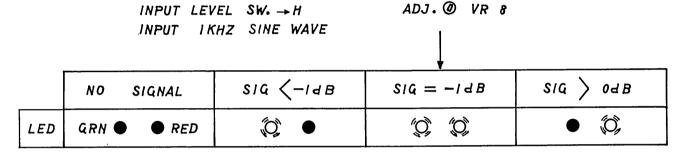
### **ADJUSTMENT**

		CHECK POINT	ADJ.	SETTING & STANDARD VALUE
(1)	POWER SUPPLY 100V • 220V	ВІ		+ 23·0V
		B 2		- 22·5V
	117V • 240V	B I		+ 28·3V
1	· · ·	B 2	_	- 27·8V
	100V-117V-220V-240V	B 3		+14.7 ~ 15.4V
	4 . 4 . 4 . 4	B 4	l '	-14.5 ~ 15.2V
(2)	LFO ADJ.	CP-I	VR 9	$-s \cdot oov \pm o \cdot osv$
	LFO RATE (Check only)	CP-2		RATE → 0
(3)	VCO ADJ.			DEPTH → 0 FLANGER ← MODE → CHORUS
	CH-A	CP-6A	VR 5 )	CENTER FQ. $\rightarrow$ 0 $T = 30 \mu S$ $T = 30 \mu S$ $\mu$ $\rightarrow$ 10 $T = 1 \mu S$ $T = 9 \sim 10 \mu S$
	CH-B	CP-6B	VR105)	
(4)	BBD BIAS ADJ.			DEPTH -0
				MODE FLANGER I
				Feed signal (CH-A or B input jack) large enough to cause slight clipping.
	7 CH-A	CP-6A	CENTER	SسS \$ CLOCK
	3 <b>CH - B</b>	CP-6B	FQ	* ÷ 8μS
	2 <b>CH-A</b> .	CP-5	VR /	Α. Λ. Λ.
	4 <b>CH-B</b>	CP-4	VR 101	X X GOOD
(5)	BBD CLOCK LEAK			<b>A</b>
	CANCEL CH-A	CP- 5	VR 2	
	CH-B	CP-4	VR 102	X GOOD





#### (7) INPUT LEVEL INDICATOR



(8) FEEDBACK LEVEL

FEEDBACK VR→10 DEPTH VR→10 RATE VR→ 0

### CHANNEL A

Set VR-7 to the point just before oscillation occurs.

Check that oscillation does not occur over the entire rotaion range of the front panel CENTER FREQUENCY control.

## CHANNEL B

Set VR-107 in the same manner as VR-7.

SBF-325

**PARTS LIST** ETH15A (PCB 052H194A) 151H015A LED mounting less parts 052H195 052H225 LED mounting less parts H55 072H055 Panel OPH83A terminal 100V 149HC83A 061H069 Chassis .H89 149H084A OPH84A (052H185A) 117V 065H059 Cover H59 149H085A OPH85A 220/240V 108H003 Handle Н3 111-037 Rubber foot K-15 FUSE Knob no.43 rotary 016-043 MGP 0.25A prim. 117V 008-050 Button no.9 black, push 016-009 008-057 CEE T125mA prim.220/240V Jack HLJ0261-01-010 w/sw. 009-051 008-063 CEE T500mA sec. 220/240V Jack HLJ0264-01-030 009-030 POTENTIOMETER Power transformer 100/117V 022**-**086C 026-360 EWK2TAK20 583 w/center tap 022-086D Power transformer 220/240V  $100kA \times 2 + 10kA$ 026-342 EWK-EPAK2OB14 lOkB x 2 SWITCH 026-352 EWK-EPAK20C14 10kC x 2 001-291 SUE-12-4 push EVHCCAK20B54 001-290 SRZW65N rotary 028-483 50kB SR19R 2.2kB 030-461 001-215 SDG5P-001-1 power 100V trimmer SR19R 030-463 4.7kB 001-216 SDG5P-001-2 power 117V trimmer SR19R 030-465 10kB 001-217 SDG5P-502 power 220/240V trimmer 030-471 SR19R 100kB SSM022 slide trimmer 001-232 030-481 SR19R 250kB trimmer SEMICONDUCTOR CONNECTOR 017-016 2SK3OA-GR  $\operatorname{FET}$ Housing Wafer terminal 017-155 2SA1015-GR EMCBO315A51 EMCSO 350 EMCB0320A51 017-106 2SC1815-GR EMCBO415A51 EMCSO 450 017-128 2SB596-Y EMCB0440A51 EMCSO550 EMCB0515A51 017-090 2SD526-Y 5p EMCSO650 EMCBO610A51 1B4B41 rectifier bridge 018-081 EMCB0640A51 EMCSO'750 EMCB0725A51 7p 018-087 M8555 diode EMCSO950 EMCBO920A51 HZ161L zener 15.3-15.9V 018-108 EMCB1010A51 EMCS1050 018-109 HZ6A3 zener 5.4-5.7V OTHERS 019-028 TLR-124 LED red 120-015 Sleeve nut no.15 3x18mm 019-029 TLG-124A LED green 042-041 Terminal(earth) no.41 020-097 µPC4558 012-003 Fuse clip TF-758 TC4001BP 020-051 IC socket ICC-03-016-350T 012-049 TC4013BP 020-041 16-pin dual in-line TC4079UBP 048-032 Heat sink no.32 020-084

Ó65-261

123-013

Cover no.61 slide switch

Hexagon socket head bolt

 $4 \times imm$ 

PCB

Nov. 3, 1979

4

020-213

020-098

020-208

MN3007 BBD

LF353N dual FET op amp

NE570

# J-3 出 5W 3-2 R307 10K FRONT IN -BYPASS ---C 301 CH-A R 201 470K REAR IN INPUT ATT OVER LOAD ~ -20 REAR IN INPUT LEVEL INDICATOR -CH-B R202 470K R105 100 K BYPASS-FRONT IN R302 22K R 308 10 K

# ETH-15B (151H-15B)

(PCB 052H194B)

Components added and revised are identified by indicating their values.

